

# SEQUENCE LISTING

<110> Allen, Steve  
Lee, Jian Ming

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<150> 60/092,438

<151> July 10, 1998

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Gly Ser Val Lys Pro Asn Glu Ala Ser Ile Pro Glu Ala Ser Xaa Cys  
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85 90 95

Cys Ser Ala Lys Gly Lys Lys Gly Ala Phe Lys Gly Leu Asn Val Ala  
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Val Lys Val Ile Pro Lys Ala Lys Met Thr Thr Ala Ile Ala Ile Glu  
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Leu Ser Asp Phe Val Lys Pro Asp Glu Arg Leu Asn Asp Ile Val Gly  
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 Pro Asn Gly Arg Phe Leu Pro Pro Leu Phe Asn Phe Lys Pro His Glu  
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Ile Arg Asp Asp Lys Glu Xaa Glu Xaa Xaa Thr Ile Ile Asn Xaa Xaa  
 35 40 45

Gly Thr Glu Xaa Gly His Ile Ile Val Thr Thr Thr Gly Gly Xaa Asn  
 50 55 60

Gly Xaa Pro Lys Xaa Thr Val Ser Tyr Met Ala Xaa Arg Ile Val Gly  
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Gln Gly Ser Phe Gly Ile Val Phe Gln Ala Lys Phe Trp Arg Gln Gly  
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Glu Thr Val Ala Ile Lys Xaa Val Leu  
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 <212> DNA  
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cgggttggtt ggcaccaact tcgggtttga gagaagccag tgggcatgga gcagcagggtg 180  
ttgatagatt gccagaggag atgaacgata tgaaaattag ggatgataga gaaatggaag 240  
ccacagtgtt tgatggcaac ggaacggaga caggacatat cattgtgact accattggggg 300  
gtagaaatgg tcagcccaag cagactataa gctacatggc agagcgtggt gtagggcatg 360  
gatcatttgg agttgtcttc caggctaagt gcttggaaac cggtgaaact gtggctatca 420  
aaaaggttct tcaagacaag aggtacaaga accgggagct gcaacaacat gcgccttcttg 480  
accacccaaa tgtcgttgc ttagaagcact gtttcttttc aaccactgaa aaggatgaac 540  
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aaaatctatt ggtcaatcca cacactcacc aggttaaat atgtgacttt ggaagtgcac 780  
aggttttggt aaaaggcgaa ccaaatatat catacatatg ttctagatac tatagagcac 840  
ctgagctcat atttggcgca actgaatata ctacagccat tgacgtctgg tctgttggt 900  
gtgttttagc tgagctgctg cttggacagc ctctgttccc tggtgagagt ggagttgatc 960  
aacttgttga gatcatcaag gttctgggca ctccaacaag ggaagagatt aagtgcattg 1020  
accctaatta tacagaattt aaattccacc agattaaagc acatccatgg cacaagatct 1080  
tcataaagcg catgcctcca gaggtctgtt atttggatc aagactacta caatactccc 1140  
ctaacttgcg gtgcacagtt ttagatgcct tggacgcacc ctttctcttg gacgaattcc 1200  
ngatccaaa tcctcgtctg ccaaatgggc cgatecctcc aacaactatt aattcaaac 1260  
catgaactga aagtgccaa ctgagatttg gggaantgg tcaaaagcatg caaggaacaa 1320  
tgcggtttct ggcttgaan tgtacaaaac tgaagtgttg ttcataatga atgcgngctt 1380  
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Gly	His	Gly	Ala	Ala	Gly	Val	Asp	Arg	Leu	Pro	Glu	Glu	Met	Asn	Asp
		35					40					45			
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	50					55					60				
Asn	Gly	Thr	Glu	Thr	Gly	His	Ile	Ile	Val	Thr	Thr	Ile	Gly	Gly	Arg
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Gly	His	Gly	Ser	Phe	Gly	Val	Val	Phe	Gln	Ala	Lys	Cys	Leu	Glu	Thr
			100					105					110		
Gly	Glu	Thr	Val	Ala	Ile	Lys	Lys	Val	Leu	Gln	Asp	Lys	Arg	Tyr	Lys
			115				120					125			
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	130					135					140				
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145					150					155				160	
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			165					170						175	
Lys	His	Tyr	Asn	Lys	Phe	Asn	Gln	Arg	Met	Pro	Leu	Ile	Tyr	Val	Lys
			180					185					190		
Leu	Tyr	Thr	Tyr	Gln	Ile	Phe	Arg	Ala	Leu	Ser	Tyr	Ile	His	Arg	Cys
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Ile	Gly	Val	Cys	His	Arg	Asp	Ile	Lys	Pro	Gln	Asn	Leu	Leu	Val	Asn
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Pro	His	Thr	His	Gln	Val	Lys	Leu	Cys	Asp	Phe	Gly	Ser	Ala	Lys	Val
225					230					235				240	
Leu	Val	Lys	Gly	Glu	Pro	Asn	Ile	Ser	Tyr	Ile	Cys	Ser	Arg	Tyr	Tyr
			245					250					255		
Arg	Ala	Pro	Glu	Leu	Ile	Phe	Gly	Ala	Thr	Glu	Tyr	Thr	Thr	Ala	Ile
			260					265					270		
Asp	Val	Trp	Ser	Val	Gly	Cys	Val	Leu	Ala	Glu	Leu	Leu	Leu	Gly	Gln
		275					280						285		

Pro Leu Phe Pro Gly Glu Ser Gly Val Asp Gln Leu Val Glu Ile Ile  
290 295 300

Lys Val Leu Gly Thr Pro Thr Arg Glu Glu Ile Lys Cys Met Asn Pro  
305 310 315 320

Asn Tyr Thr Glu Phe Lys Phe Pro Gln Ile Lys Ala His Pro Trp His  
325 330 335

Lys Ile Phe His Lys Arg Met Pro Pro Glu Ala Val Asp Leu Val Ser  
340 345 350

Arg Leu Leu Gln Tyr Ser Pro Asn Leu Arg Cys Thr Val Leu Asp Ala  
355 360 365

Leu Asp Ala Pro Phe Pro Leu Asp Glu Phe Arg Asp Pro Asn Pro Arg  
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<213> Triticum aestivum

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<222> (1349)

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gcagcaggat ggcgaggcgc cgtatgcgga ggggaacgac gccatgaccg gtcacatcat 180  
ctccaccacc atcgccggca agaacggcga gcccaagcag acgattagct acatggcgga 240  
gcgcgttgtg ggcactggtt cgtttggcat cgtctttcag gctaaatgcc tggaaacccg 300  
ggagatgggt ggcatlaaga aggtactgca ggacagacgg tacaagaacc gtgagctgca 360  
gcttatgcgt tcgatgatcc attccaatgt tgtctccctc aagcactgct tcttctcaac 420  
cacaagtaga gatgagctgt tcttgaacct tgcctggag tatgtcccg agacgctata 480  
ccgcgtgctt aagcactaca gtaatgccaa ccaggggatg ccgcttatct atgtcaagct 540  
ttacatgtat cagcttttta gagggctagc ttatgttcat actgttccag gagtttgcca 600  
cagggatgtg aaaccacaaa atgttttgtt tgatcctcta acccatcaag tcaagatctg 660  
tgactttgga agtgcaaaaag tctcgttacc tgggtgaacc aacatagcat acatattgctc 720  
tcgctactat cgtgctctcg agctcatatt tgggtcaact gaataataca cttcaataga 780  
catatggtca gctggatgtg tctttgcaga gctactcttt ggtcagcctc tgtttccagg 840  
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cctctccagc tattccacaa atctacgttg cactgctctt gatgcatgtg cacactcctt 1080  
ctttgtagag ctacgtgagc cgaatgcacg cttgcgcgaat ggccgcccat tccctcctct 1140  
gttcaacttc aaacctgaac tagcgaacgc ctctccagag ctcacataca ggctgtgtcc 1200  
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atgcttggtg tgggtactgt aatgcggcaa tagctgtccc atgtttgtc cctgtgcccc 1620  
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 <211> 402  
 <212> PRT  
 <213> Triticum aestivum

<400> 16  
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 35 40 45  
 Thr Ile Gly Gly Lys Asn Gly Glu Pro Lys Gln Thr Ile Ser Tyr Met  
 50 55 60  
 Ala Glu Arg Val Val Gly Thr Gly Ser Phe Gly Ile Val Phe Gln Ala  
 65 70 75 80  
 Lys Cys Leu Glu Thr Gly Glu Met Val Gly Ile Lys Lys Val Leu Gln  
 85 90 95  
 Asp Arg Arg Tyr Lys Asn Arg Glu Leu Gln Leu Met Arg Ser Met Ile  
 100 105 110  
 His Ser Asn Val Val Ser Leu Lys His Cys Phe Phe Ser Thr Thr Ser  
 115 120 125  
 Arg Asp Glu Leu Phe Leu Asn Leu Val Met Glu Tyr Val Pro Glu Thr  
 130 135 140  
 Leu Tyr Arg Val Leu Lys His Tyr Ser Asn Ala Asn Gln Gly Met Pro  
 145 150 155 160  
 Leu Ile Tyr Val Lys Leu Tyr Met Tyr Gln Leu Phe Arg Gly Leu Ala  
 165 170 175  
 Tyr Val His Thr Val Pro Gly Val Cys His Arg Asp Val Lys Pro Gln  
 180 185 190  
 Asn Val Leu Val Asp Pro Leu Thr His Gln Val Lys Ile Cys Asp Phe  
 195 200 205  
 Gly Ser Ala Lys Val Leu Val Pro Gly Glu Pro Asn Ile Ala Tyr Ile  
 210 215 220  
 Cys Ser Arg Tyr Tyr Arg Ala Pro Glu Leu Ile Phe Gly Ala Thr Glu  
 225 230 235 240  
 Tyr Thr Thr Ser Ile Asp Ile Trp Ser Ala Gly Cys Val Leu Ala Glu  
 245 250 255  
 Leu Leu Leu Gly Gln Pro Leu Phe Pro Gly Glu Thr Ala Val Asp Gln  
 260 265 270  
 Leu Val Glu Ile Ile Lys Val Leu Gly Thr Pro Thr Arg Glu Glu Ile  
 275 280 285



Arg Cys Met Asn Pro Asn Tyr Thr Glu Phe Arg Phe Pro Gln Ile Lys  
 290 295 300  
 Ala His Pro Trp His Lys Ile Phe His Lys Arg Met Pro Ala Glu Ala  
 305 310 315 320  
 Ile Asp Leu Ala Ser Arg Leu Leu Gln Tyr Ser Pro Asn Leu Arg Cys  
 325 330 335  
 Thr Ala Leu Asp Ala Cys Ala His Ser Phe Phe Asp Glu Leu Arg Glu  
 340 345 350  
 Pro Asn Ala Arg Leu Pro Asn Gly Arg Pro Phe Pro Pro Leu Phe Asn  
 355 360 365  
 Phe Lys Pro Glu Leu Ala Asn Ala Ser Pro Glu Leu Ile Asn Arg Leu  
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 385 390 395 400

Gly Ser

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 <211> 639  
 <212> PRT  
 <213> Zea mays

<400> 17  
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 Leu Pro Ala Ala Ala Asn Gly Pro Gly Gly Pro Ala Gly Ala Gly Ser  
 35 40 45  
 Gln Ser Ala Leu Pro Lys Pro Ala Ser Asp Val His His Val Ala Val  
 50 55 60  
 Gln Ser Glu Ala Pro Glu Pro Val Lys Ile Ala Ala Tyr His Ser Glu  
 65 70 75 80  
 Pro Ala Pro Ala Val Arg Ser Glu Ala Pro Glu Pro Val Lys Ile Ala  
 85 90 95  
 Ala Ser His Ser Glu Pro Ala Pro Met Ala Ala Lys Pro Gly Gly Ala  
 100 105 110  
 Ala Ala Asn Ala Ser Pro Ser Pro Ser Pro Arg Pro Arg Pro Gln Val  
 115 120 125  
 Lys Arg Val Ser Ser Ala Gly Leu Leu Leu Gly Ser Val Leu Arg Arg  
 130 135 140  
 Lys Thr Glu Asn Leu Lys Asp Lys Tyr Ser Leu Gly Arg Arg Leu Gly  
 145 150 155 160

Gln Gly Gln Phe Gly Thr Thr His Leu Cys Val Glu Arg Ala Thr Gly  
 165 170 175  
 Lys Glu Leu Ala Cys Lys Ser Ile Leu Lys Arg Lys Leu Gly Ser Asp  
 180 185 190  
 Asp Asp Val Glu Asp Val Arg Arg Glu Ile Gln Ile Met His His Leu  
 195 200 205  
 Ala Gly His Pro Ser Val Val Gly Ile Arg Gly Ala Tyr Glu Asp Ala  
 210 215 220  
 Val Ala Val His Leu Val Met Glu Leu Cys Gly Gly Gly Glu Leu Phe  
 225 230 235 240  
 Asp Arg Ile Val Arg Arg Gly His Tyr Thr Glu Arg Lys Ala Ala Glu  
 245 250 255  
 Leu Ala Arg Val Ile Val Gly Val Val Glu Ala Cys His Ser Met Gly  
 260 265 270  
 Val Met His Arg Asp Leu Lys Pro Glu Asn Phe Leu Phe Ala Asp His  
 275 280 285  
 Ser Glu Glu Ala Ala Leu Lys Thr Ile Asp Phe Gly Leu Ser Ile Phe  
 290 295 300  
 Phe Arg Pro Gly Gln Ile Phe Thr Asp Val Val Gly Ser Pro Tyr Tyr  
 305 310 315 320  
 Val Ala Pro Glu Val Leu Lys Lys Arg Tyr Gly Pro Glu Ala Asp Val  
 325 330 335  
 Trp Ser Ala Gly Val Ile Ile Tyr Ile Leu Leu Cys Gly Val Pro Pro  
 340 345 350  
 Phe Trp Ala Glu Asn Glu Gln Gly Ile Phe Glu Glu Val Leu His Gly  
 355 360 365  
 Arg Leu Asp Phe Glu Ser Glu Pro Trp Pro Ser Ile Ser Asp Gly Ala  
 370 375 380  
 Lys Asp Leu Val Arg Arg Met Leu Val Arg Asp Pro Arg Lys Arg Leu  
 385 390 395 400  
 Thr Ala His Glu Val Leu Arg His Pro Trp Val Gln Val Gly Gly Val  
 405 410 415  
 Ala Pro Asp Arg Pro Leu Asp Ser Ala Val Leu Ser Arg Met Lys Gln  
 420 425 430  
 Phe Ser Ala Met Asn Lys Leu Lys Lys Met Ala Leu Arg Val Ile Ala  
 435 440 445  
 Glu Asn Leu Ser Glu Asp Glu Ile Ala Gly Leu Arg Glu Met Phe Lys  
 450 455 460  
 Met Ile Asp Ala Asp Asn Ser Gly Gln Ile Thr Phe Glu Glu Leu Lys  
 465 470 475 480

Val Gly Leu Glu Lys Val Gly Ala Asn Leu Gln Glu Ser Glu Ile Tyr  
 485 490 495  
 Ala Leu Met Gln Ala Ala Asp Val Asp Asn Asn Gly Thr Ile Asp Tyr  
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 Gly Glu Phe Ile Ala Ala Thr Leu His Leu Asn Lys Val Glu Arg Glu  
 515 520 525  
 Asp His Leu Phe Ala Ala Phe Gln Tyr Phe Asp Lys Asp Gly Ser Gly  
 530 535 540  
 Tyr Ile Thr Ala Asp Glu Leu Gln Val Ala Cys Glu Glu Phe Gly Leu  
 545 550 555 560  
 Gly Asp Val Gln Leu Glu Asp Leu Ile Gly Glu Val Asp Gln Asp Asn  
 565 570 575  
 Asp Gly Arg Ile Asp Tyr Asn Glu Phe Val Ala Met Met Gln Lys Pro  
 580 585 590  
 Thr Val Gly Gly Ser Arg Arg Arg Pro Ile Cys Arg Thr Ala Ser Ala  
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 35 40 45  
 Ser Gly Ser Thr Thr Pro Val His His His Gln Ala Ala Thr Pro Gly  
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 Ala Ala Ala Trp Pro Ser Pro Tyr Pro Ala Gly Gly Ala Ser Pro Leu  
 65 70 75 80  
 Pro Ala Gly Val Ser Pro Ser Pro Ala Arg Ser Thr Pro Arg Arg Phe  
 85 90 95  
 Phe Lys Arg Pro Phe Pro Pro Pro Ser Pro Ala Lys His Ile Lys Ala  
 100 105 110  
 Thr Leu Ala Lys Arg Leu Gly Gly Gly Lys Pro Lys Glu Gly Thr Ile  
 115 120 125

Pro Glu Glu Gly Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala  
 130 135 140  
 Gly Ala Ala Val Gly Ala Ala Asp Ser Ala Glu Ala Asp Arg Pro Leu  
 145 150 155 160  
 Asp Lys Thr Phe Gly Phe Ala Lys Asn Phe Gly Ala Lys Tyr Asp Leu  
 165 170 175  
 Gly Lys Glu Val Gly Arg Gly His Phe Gly His Thr Cys Ser Ala Val  
 180 185 190  
 Val Lys Lys Gly Glu His Lys Gly His Thr Val Ala Val Lys Ile Ile  
 195 200 205  
 Ser Lys Ala Lys Met Thr Thr Ala Ile Ser Ile Glu Asp Val Arg Arg  
 210 215 220  
 Glu Val Lys Ile Leu Lys Ala Leu Ser Gly His Asp Asn Leu Val Arg  
 225 230 235 240  
 Phe Tyr Asp Ala Cys Glu Asp Ala Leu Asn Val Tyr Ile Val Met Glu  
 245 250 255  
 Leu Cys Glu Gly Gly Glu Leu Leu Asp Arg Ile Leu Ala Arg Gly Gly  
 260 265 270  
 Arg Tyr Thr Glu Glu Asp Ala Lys Ala Ile Ile Val Gln Ile Leu Ser  
 275 280 285  
 Val Val Ala Phe Cys His Leu Gln Gly Val Val His Arg Asp Leu Lys  
 290 295 300  
 Pro Glu Asn Phe Leu Phe Thr Thr Arg Asp Glu Ser Ala Pro Met Lys  
 305 310 315 320  
 Leu Ile Asp Phe Gly Leu Ser Asp Phe Ile Arg Pro Asp Glu Arg Leu  
 325 330 335  
 Asn Asp Ile Val Gly Ser Ala Tyr Tyr Val Ala Pro Glu Val Leu His  
 340 345 350  
 Arg Ser Tyr Ser Met Glu Ala Asp Ile Trp Ser Ile Gly Val Ile Thr  
 355 360 365  
 Tyr Ile Leu Leu Cys Gly Ser Arg Pro Phe Trp Ala Arg Thr Glu Ser  
 370 375 380  
 Gly Ile Phe Arg Ser Val Leu Arg Ala Asp Pro Asn Phe Asp Asp Ser  
 385 390 395 400  
 Pro Trp Pro Ser Val Ser Ala Glu Ala Lys Asp Phe Val Lys Arg Phe  
 405 410 415  
 Leu Asn Lys Asp Tyr Arg Lys Arg Met Thr Ala Val Gln Ala Leu Thr  
 420 425 430  
 His Pro Trp Leu Arg Asp Glu Gln Arg Gln Ile Pro Leu Asp Ile Leu  
 435 440 445

Ile Phe Arg Leu Val Lys Gln Tyr Leu Arg Ala Thr Pro Leu Lys Arg  
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 Leu Ala Leu Lys Ala Leu Ser Lys Ala Leu Ser Glu Asp Glu Leu Leu  
 465 470 475 480  
 Tyr Leu Arg Leu Gln Phe Lys Leu Leu Glu Pro Arg Asp Gly Phe Val  
 485 490 495  
 Ser Leu Asp Asn Phe Arg Thr Ala Leu Thr Arg Tyr Ser Thr Asp Ala  
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 Met Arg Glu Ser Arg Val Leu Glu Phe Gln His Ala Leu Glu Pro Leu  
 515 520 525  
 Ala Tyr Arg Lys Met Asp Phe Glu Glu Phe Cys Ala Ala Ala Ile Ser  
 530 535 540  
 Pro Tyr Gln Leu Glu Ala Leu Glu Arg Trp Glu Glu Ile Ala Gly Thr  
 545 550 555 560  
 Ala Phe Gln His Phe Glu Gln Glu Gly Asn Arg Val Ile Ser Val Glu  
 565 570 575  
 Glu Leu Ala Gln Glu Leu Asn Leu Ala Pro Thr His Tyr Ser Ile Val  
 580 585 590  
 Gln Asp Trp Ile Arg Lys Ser Asp Gly Lys Leu Asn Phe Leu Gly Phe  
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 35 40 45  
 Leu Phe Lys Ser Ser Pro Ser Val Ser Ser Ser Val Ser Ser Thr Pro  
 50 55 60  
 Leu Arg Ile Phe Lys Arg Pro Phe Pro Pro Pro Ser Pro Ala Lys His  
 65 70 75 80  
 Ile Arg Ala Phe Leu Ala Arg Arg Tyr Gly Ser Val Lys Pro Asn Glu  
 85 90 95

Val Ser Ile Pro Glu Gly Lys Glu Cys Glu Ile Gly Leu Asp Lys Ser  
 100 105 110  
 Phe Gly Phe Ser Lys Gln Phe Ala Ser His Tyr Glu Ile Asp Gly Glu  
 115 120 125  
 Val Gly Arg Gly His Phe Gly Tyr Thr Cys Ser Ala Lys Gly Lys Lys  
 130 135 140  
 Gly Ser Leu Lys Gly Gln Glu Val Ala Val Lys Val Ile Pro Lys Ser  
 145 150 155 160  
 Lys Met Thr Thr Ala Ile Ala Ile Glu Asp Val Ser Arg Glu Val Lys  
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 Met Leu Arg Ala Leu Thr Gly His Lys Asn Leu Val Gln Phe Tyr Asp  
 180 185 190  
 Ala Phe Glu Asp Asp Glu Asn Val Tyr Ile Val Met Glu Leu Cys Lys  
 195 200 205  
 Gly Gly Glu Leu Leu Asp Lys Ile Leu Gln Arg Gly Gly Lys Tyr Ser  
 210 215 220  
 Glu Asp Asp Ala Lys Lys Val Met Val Gln Ile Leu Ser Val Val Ala  
 225 230 235 240  
 Tyr Cys His Leu Gln Gly Val Val His Arg Asp Leu Lys Pro Glu Asn  
 245 250 255  
 Phe Leu Phe Ser Thr Lys Asp Glu Thr Ser Pro Leu Lys Ala Ile Asp  
 260 265 270  
 Phe Gly Leu Ser Asp Tyr Val Lys Pro Asp Glu Arg Leu Asn Asp Ile  
 275 280 285  
 Val Gly Ser Ala Tyr Tyr Val Ala Pro Glu Val Leu His Arg Thr Tyr  
 290 295 300  
 Gly Thr Glu Ala Asp Met Trp Ser Ile Gly Val Ile Ala Tyr Ile Leu  
 305 310 315 320  
 Leu Cys Gly Ser Arg Pro Phe Trp Ala Arg Thr Glu Ser Gly Ile Phe  
 325 330 335  
 Arg Ala Val Leu Lys Ala Glu Pro Asn Phe Glu Glu Ala Pro Trp Pro  
 340 345 350  
 Ser Leu Ser Pro Glu Ala Val Asp Phe Val Lys Arg Leu Leu Asn Lys  
 355 360 365  
 Asp Tyr Arg Lys Arg Leu Thr Ala Ala Gln Ala Leu Cys His Pro Trp  
 370 375 380  
 Leu Val Gly Ser His Glu Leu Lys Ile Pro Ser Asp Met Ile Ile Tyr  
 385 390 395 400  
 Lys Leu Val Lys Val Tyr Ile Met Ser Thr Ser Leu Arg Lys Ser Ala  
 405 410 415

Leu Ala Ala Leu Ala Lys Thr Leu Thr Val Pro Gln Leu Ala Tyr Leu  
 420 425 430  
 Arg Glu Gln Phe Thr Leu Leu Gly Pro Ser Lys Asn Gly Tyr Ile Ser  
 435 440 445  
 Met Gln Asn Tyr Lys Thr Ala Ile Leu Lys Ser Ser Thr Asp Ala Met  
 450 455 460  
 Lys Asp Ser Arg Val Phe Asp Phe Val His Met Ile Ser Cys Leu Gln  
 465 470 475 480  
 Tyr Lys Lys Leu Asp Phe Glu Glu Phe Cys Ala Ser Ala Leu Ser Val  
 485 490 495  
 Tyr Gln Leu Glu Ala Met Glu Thr Trp Glu Gln His Ala Arg Arg Ala  
 500 505 510  
 Tyr Glu Leu Phe Glu Lys Asp Gly Asn Arg Pro Ile Met Ile Glu Glu  
 515 520 525  
 Leu Ala Ser Glu Leu Gly Leu Gly Pro Ser Val Pro Val His Val Val  
 530 535 540  
 Leu Gln Asp Trp Ile Arg His Ser Asp Gly Lys Leu Ser Phe Leu Gly  
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 Asp Lys Glu Met Glu Ala Thr Val Val Asp Gly Asn Gly Thr Glu Thr  
 35 40 45  
 Gly His Ile Ile Val Thr Thr Ile Gly Gly Arg Asn Gly Gln Pro Lys  
 50 55 60  
 Gln Thr Ile Ser Tyr Met Ala Glu Arg Val Val Gly His Gly Ser Phe  
 65 70 75 80  
 Gly Val Val Phe Gln Ala Lys Cys Leu Glu Thr Gly Glu Thr Val Ala  
 85 90 95  
 Ile Lys Lys Val Leu Gln Asp Arg Arg Tyr Lys Asn Arg Glu Leu Gln  
 100 105 110  
 Thr Met Arg Leu Leu Asp His Pro Asn Val Val Ser Leu Lys His Cys  
 115 120 125

Phe Phe Ser Thr Thr Glu Lys Asp Glu Leu Tyr Leu Asn Leu Val Leu  
 130 135 140  
 Glu Tyr Val Pro Glu Thr Val His Arg Val Ile Lys His Tyr Asn Lys  
 145 150 155 160  
 Leu Asn Gln Arg Met Pro Leu Ile Tyr Val Lys Leu Tyr Thr Tyr Gln  
 165 170 175  
 Ile Phe Arg Ala Leu Ser Tyr Ile His Arg Cys Ile Gly Val Cys His  
 180 185 190  
 Arg Asp Ile Lys Pro Gln Asn Leu Leu Val Asn Pro His Thr His Gln  
 195 200 205  
 Val Lys Leu Cys Asp Phe Gly Ser Ala Lys Val Leu Val Lys Gly Glu  
 210 215 220  
 Pro Asn Ile Ser Tyr Ile Cys Ser Arg Tyr Tyr Arg Ala Pro Glu Leu  
 225 230 235 240  
 Ile Phe Gly Ala Thr Glu Tyr Thr Thr Ala Ile Asp Val Trp Ser Ala  
 245 250 255  
 Gly Cys Val Leu Ala Glu Leu Leu Gly Gln Pro Leu Phe Pro Gly  
 260 265 270  
 Glu Ser Gly Val Asp Gln Leu Val His Ile Ile Lys Val Leu Gly Thr  
 275 280 285  
 Pro Thr Arg Glu Glu Ile Lys Cys Met Asn Pro Asn Tyr Thr Glu Phe  
 290 295 300  
 Lys Phe Pro Gln Ile Lys Ala His Pro Trp His Lys Ile Phe His Lys  
 305 310 315 320  
 Arg Met Pro Pro Glu Ala Val Asp Leu Val Ser Arg Leu Leu Gln Tyr  
 325 330 335  
 Ser Pro Asn Leu Arg Ser Ala Ala Leu Asp Thr Leu Val His Pro Phe  
 340 345 350  
 Phe Asp Glu Leu Arg Asp Pro Asn Ala Arg Leu Pro Asn Gly Arg Phe  
 355 360 365  
 Leu Pro Pro Ala Phe His Phe Lys Pro His Glu Leu Lys Gly Val Pro  
 370 375 380  
 Leu Glu Met Val Ala Lys Leu Val Pro Glu His Ala Arg Lys Gln Cys  
 385 390 395 400  
 Pro Trp Leu Gly Leu  
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<210> 21  
 <211> 412  
 <212> PRT  
 <213> Medicago sativa



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 35 40 45  
 Gly Asn Gly Thr Glu Thr Gly His Ile Ile Val Thr Thr Ile Gly Gly  
 50 55 60  
 Lys Asn Gly Gln Pro Lys Gln Thr Ile Ser Tyr Met Ala Glu Arg Val  
 65 70 75 80  
 Val Gly His Gly Ser Phe Gly Val Val Phe Gln Ala Lys Cys Leu Glu  
 85 90 95  
 Thr Gly Glu Thr Val Ala Ile Lys Lys Val Leu Gln Asp Lys Arg Tyr  
 100 105 110  
 Lys Asn Arg Glu Leu Gln Thr Met Arg Leu Leu Asp His Pro Asn Val  
 115 120 125  
 Val Ser Leu Lys His Cys Phe Phe Ser Thr Thr Glu Lys Asp Glu Leu  
 130 135 140  
 Tyr Leu Asn Leu Val Leu Glu Tyr Val Pro Glu Thr Val Ser Arg Val  
 145 150 155 160  
 Ile Arg His Tyr Asn Lys Met Asn Gln Arg Met Pro Met Ile Tyr Val  
 165 170 175  
 Lys Leu Tyr Ser Tyr Gln Ile Cys Arg Ala Leu Ala Tyr Ile His Asn  
 180 185 190  
 Ser Ile Gly Val Cys His Arg Asp Ile Lys Pro Gln Asn Leu Leu Val  
 195 200 205  
 Asn Pro His Thr His Gln Leu Lys Ile Cys Asp Phe Gly Ser Ala Lys  
 210 215 220  
 Val Leu Val Lys Gly Glu Pro Asn Ile Ser Tyr Ile Cys Ser Arg Tyr  
 225 230 235 240  
 Tyr Arg Ala Pro Glu Leu Ile Phe Gly Ala Thr Glu Tyr Thr Thr Ala  
 245 250 255  
 Ile Asp Ile Trp Ser Ala Gly Cys Val Leu Gly Glu Leu Leu Gly  
 260 265 270  
 Gln Pro Leu Phe Pro Gly Glu Ser Gly Val Asp Gln Leu Val Glu Ile  
 275 280 285  
 Ile Lys Val Leu Gly Thr Pro Thr Arg Glu Glu Ile Lys Cys Met Asn  
 290 295 300  
 Pro Asn Tyr Thr Glu Phe Lys Phe Pro Gln Ile Lys Ala His Pro Trp  
 305 310 315 320

His Lys Ile Phe His Lys Arg Met Pro Pro Glu Ala Val Asp Leu Val  
 325 330 335  
 Ser Arg Leu Leu Gln Tyr Ser Pro Asn Leu Arg Ser Thr Ala Leu Glu  
 340 345 350  
 Ala Leu Val His Pro Phe Tyr Asp Asp Val Arg Asp Pro Asn Thr Arg  
 355 360 365  
 Leu Pro Asn Gly Arg Phe Leu Pro Pro Leu Phe Asn Phe Lys Val Asn  
 370 375 380  
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 35 40 45  
 Gly Asn Gly Thr Glu Thr Gly His Ile Ile Val Thr Thr Ile Gly Gly  
 50 55 60  
 Arg Asn Gly Gln Pro Lys Gln Thr Ile Ser Tyr Met Ala Glu Arg Val  
 65 70 75 80  
 Val Gly His Gly Ser Phe Gly Val Val Phe Gln Ala Lys Cys Leu Glu  
 85 90 95  
 Thr Gly Glu Thr Val Ala Ile Lys Lys Val Leu Gln Asp Lys Arg Tyr  
 100 105 110  
 Lys Asn Arg Glu Leu Gln Thr Met Arg Leu Leu Asp His Pro Asn Val  
 115 120 125  
 Val Ser Leu Lys His Cys Phe Phe Ser Thr Thr Glu Lys Asp Glu Leu  
 130 135 140  
 Tyr Leu Asn Leu Val Leu Glu Tyr Val Pro Glu Thr Val His Arg Val  
 145 150 155 160  
 Ile Lys His Tyr Ser Lys Leu Asn Gln Arg Met Pro Met Ile Tyr Val  
 165 170 175  
 Lys Leu Tyr Thr Tyr Gln Ile Phe Arg Ala Leu Ser Tyr Ile His Arg  
 180 185 190

Cys Ile Gly Val Cys His Arg Asp Ile Lys Pro Gln Asn Leu Leu Val  
 195 200 205  
 Asn Pro His Thr His Gln Val Lys Leu Cys Asp Phe Gly Ser Ala Lys  
 210 215 220  
 Val Leu Val Lys Gly Glu Pro Asn Ile Ser Tyr Ile Cys Ser Arg Tyr  
 225 230 235 240  
 Tyr Arg Ala Pro Glu Leu Ile Phe Gly Ala Thr Glu Tyr Thr Thr Ala  
 245 250 255  
 Ile Asp Val Trp Ser Val Gly Cys Val Ala Glu Leu Leu Leu Gly  
 260 265 270  
 Gln Pro Leu Phe Pro Gly Glu Arg Gly Val Asp Gln Leu Val Glu Ile  
 275 280 285  
 Ile Lys Val Leu Gly Thr Pro Thr Arg Glu Glu Ile Lys Cys Met Asn  
 290 295 300  
 Pro Asn Tyr Thr Glu Phe Lys Phe Pro Gln Ile Lys Ala His Pro Trp  
 305 310 315 320  
 His Lys Ile Phe His Lys Arg Met Pro Ala Glu Ala Val Asp Leu Val  
 325 330 335  
 Ser Arg Leu Leu Gln Tyr Ser Pro Asn Leu Arg Cys Gln Ala Leu Asp  
 340 345 350  
 Cys Leu Thr His Pro Phe Phe Asp Glu Leu Arg Asp Pro Asn Ala Arg  
 355 360 365  
 Leu Pro Thr Gly Arg Phe Leu Pro Pro Leu Phe Asn Phe Lys Pro His  
 370 375 380  
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 Ser Asp Lys Glu Met Ser Ala Ala Val Ile Glu Gly Asn Asp Ala Val  
 35 40 45  
 Thr Gly His Ile Ile Ser Thr Thr Ile Gly Gly Lys Asn Gly Glu Pro  
 50 55 60

Lys Gln Thr Ile Ser Tyr Met Ala Glu Arg Val Val Gly Thr Gly Ser  
 65 70 75 80  
 Phe Gly Ile Val Phe Gln Ala Lys Cys Leu Glu Thr Gly Glu Ser Val  
 85 90 95  
 Ala Ile Lys Lys Val Leu Gln Asp Arg Arg Tyr Lys Asn Arg Glu Leu  
 100 105 110  
 Gln Leu Met Arg Pro Met Asp His Pro Asn Val Ile Ser Leu Lys His  
 115 120 125  
 Cys Phe Phe Ser Thr Thr Ser Arg Asp Glu Leu Phe Leu Asn Leu Val  
 130 135 140  
 Met Glu Tyr Val Pro Glu Thr Leu Tyr Arg Val Leu Arg His Tyr Thr  
 145 150 155 160  
 Ser Ser Asn Gln Arg Met Pro Ile Phe Tyr Val Lys Leu Tyr Thr Tyr  
 165 170 175  
 Gln Ile Phe Arg Gly Leu Ala Tyr Ile His Thr Val Pro Gly Val Cys  
 180 185 190  
 His Arg Asp Val Lys Pro Gln Asn Leu Leu Val Asp Pro Leu Thr His  
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 Gln Val Lys Leu Cys Asp Phe Gly Ser Ala Lys Val Leu Val Lys Gly  
 210 215 220  
 Glu Pro Asn Ile Ser Tyr Ile Cys Ser Arg Tyr Tyr Arg Ala Pro Glu  
 225 230 235 240  
 Leu Ile Phe Gly Ala Thr Glu Tyr Thr Ala Ser Ile Asp Ile Trp Ser  
 245 250 255  
 Ala Gly Cys Val Leu Ala Glu Leu Leu Gly Gln Pro Leu Phe Pro  
 260 265 270  
 Gly Glu Asn Ser Val Asp Gln Leu Val Glu Ile Ile Lys Val Leu Gly  
 275 280 285  
 Thr Pro Thr Arg Glu Glu Ile Arg Cys Met Asn Pro Asn Tyr Thr Asp  
 290 295 300  
 Phe Arg Phe Pro Gln Ile Lys Ala His Pro Trp His Lys Val Phe His  
 305 310 315 320  
 Lys Arg Met Pro Pro Glu Ala Ile Asp Leu Ala Ser Arg Leu Leu Gln  
 325 330 335  
 Tyr Ser Pro Ser Leu Arg Cys Thr Ala Leu Glu Ala Cys Ala His Pro  
 340 345 350  
 Phe Phe Asn Glu Leu Arg Glu Pro Asn Ala Arg Leu Pro Asn Gly Arg  
 355 360 365  
 Pro Leu Pro Pro Leu Phe Asn Phe Lys Gln Glu Leu Gly Gly Ala Ser  
 370 375 380

Met Glu Leu Ile Asn Arg Leu Ile Pro Glu His Val Arg Arg Gln Met  
 385 390 395 400

Ser Thr Gly Leu Gln Asn Ser  
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